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L03 THE LINK BETWEEN DIET, GUT MICROBIOTA AND DISEASE EXPRESSION IN RODENT MODELS OF HUMAN DISEASE

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An increasing amount of evidence shows that a range of human diseases, such as type 1 and type 2 diabetes, colitis, obesity and cancer are under impact of the diet; an impact, which often works in conjunction with the gut microbiota. In this context it has been essential to perform studies in mice, in which it has been shown that various dietary components within the fractions of fat, carbohydrates, and proteins with a documented impact on the development of disease in mouse models, act through or with the gut microbiota. Sequencing techniques have allowed us a better ability to identify single bacterial species of importance, but it has also shown us that the more overall balance between microbiota members and the time of life we meet these for the first time is of importance. This has generated knowledge for a further understanding of these human diseases, and the way our diet influences their development. However, it will also in a near future change the way we set up mouse models for the studies of human diseases. Examples from the works of our research group will be given.

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